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> Prepare First-Generation Ordered, Monodisperse Colloid Template

Infiltrate Polymer Monomers into Void Spaces of Colloid Template

Polymerize Polymer Monomers to Form Macroporous Polymer Film Housing Colloid Template

Remove First-Generation Crystalline Colloid Template to Yield Polymer Film with Ordered, Monodisperse Pores

Infiltrate Material into Pores of Macroporous Polymer to Form Second-Generation Ordered, Monodisperse Colloid

Remove Macroporous
Polymer to Yield SecondGeneration Ordered,
Monodisperse Colloid

Use Polymer Film with Ordered, Monodisperse Pores in Optical, Filtration or Other Applications

Fig.1

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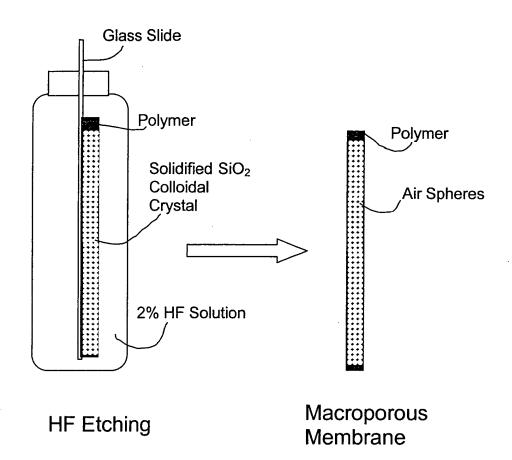


Figure 2

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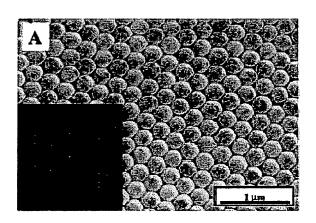


Figure 3A

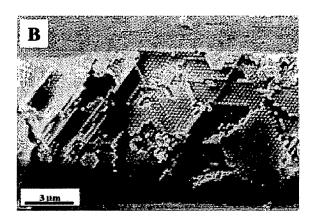


Figure 3B

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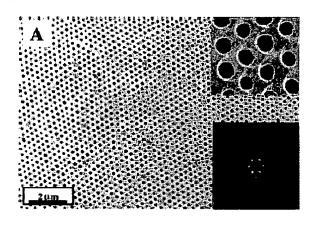


Figure 4A

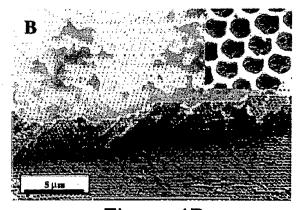


Figure 4B

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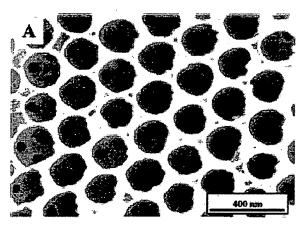


Figure 5A

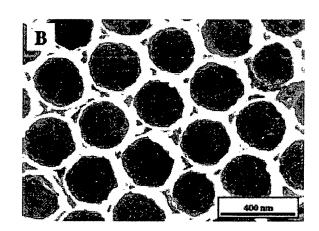


Figure 5B

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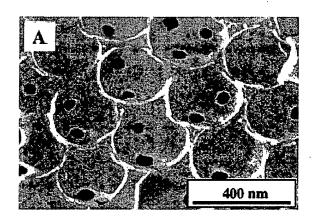


Figure 6A

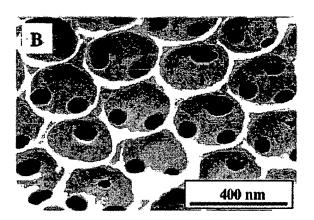


Figure 6B

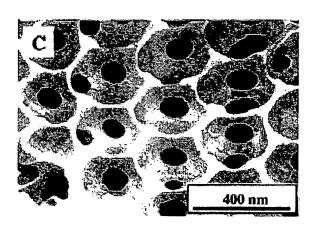


Figure 6C

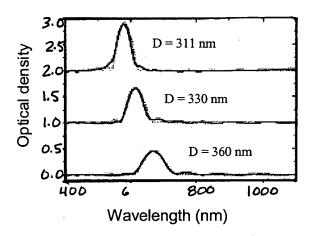


Figure 7

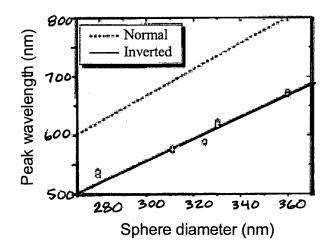
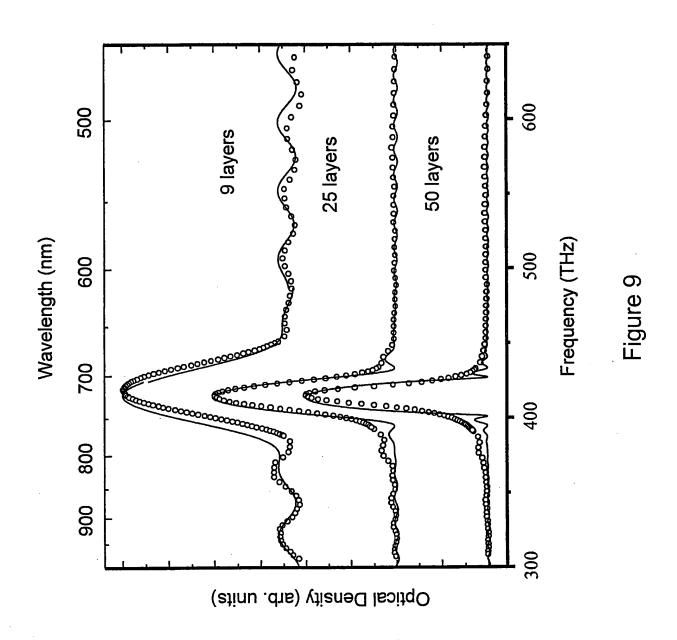


Figure 8



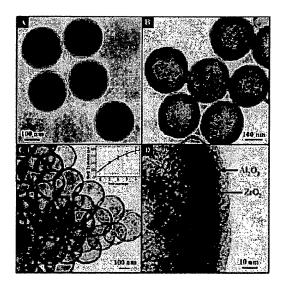


Figure 10

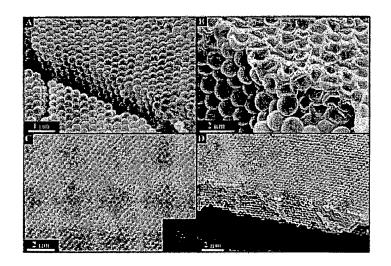


Figure 11

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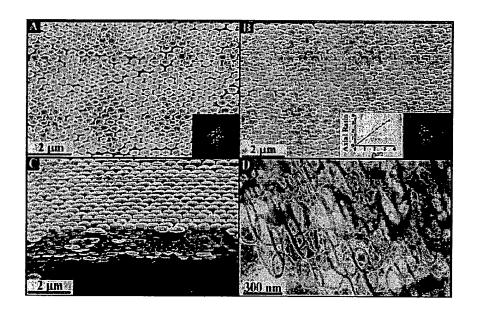


Figure 12